

Simple Triangle Checkerboard

by Arya Akhavan (April 2014)

Angles for R.I. = 1.500

40 + 12 girdles = 52 facets

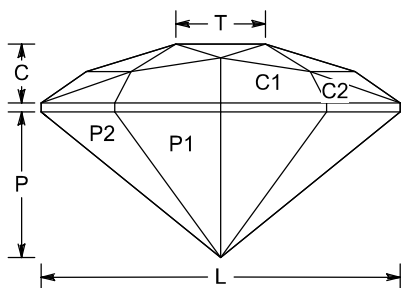
3-fold, mirror-image symmetry

96 index

L/W = 1.026 T/W = 0.257 U/W = 0.222

P/W = 0.415 C/W = 0.168

Vol./W³ = 0.175



PAVILION

P1	45.80°	02-30-34-62-66-94	Cut to centerpoint.
P2	43.00°	05-27-37-59-69-91	Meet at culet.
G1	90.00°	02-30-34-62-66-94	Set stone size.
G2	90.00°	05-27-37-59-69-91	Level girdle.

CROWN

C1	49.48°	02-30-34-62-66-94	Set girdle width.
C2	47.43°	05-27-37-59-69-91	Level girdle.
C3	22.00°	16-48-80	Meet G2, C2
C4	19.43°	16-48-80	Meet C1, C2, C3
C5	16.98°	08-24-40-56-72-88	Meet C1, C2, C3, C4
C6	10.00°	96-32-64	Meet C1, C5; C4, C5
T	0.00°	Table	Meet C4, C5, C6

Plenty of people have written designs that have checkerboards like this. I wanted one that would have a much simpler pavilion, while also having a very interesting reflection pattern. This accomplishes both. Now with more contrast! Works in materials from petalite to rutile (RI = 1.50 - 2.62) with no changes, but I prefer Mali garnets. Suggested size = 7-12 mm

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